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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/617,771

07/14/2003

Martin Kralik

740123-469

4028

25570 7590 08/09/2007
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EXAMINER

LEE, EDMUND H

ART UNIT

PAPER NUMBER

1732

MAIL DATE

DELIVERY MODE

08/09/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/617,771

Applicant(s)

KRALIK ET AL.

Examiner

EDMUND H. LEE

Art Unit

1732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 9-12 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8, 13 and 14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2-3, 4, 5-8, and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (USPN 3873654) in view of Kay (USPN 4687691). In regard to claim 1, Smith teaches all of the claimed limitation (col 2, Ins 17-42; col 3, Ins 61-65; col 4, In 15-col 5, In 8; and figs 1-3) except using a spacer part being a honeycomb structural part, wherein its open ends face the finished surface component and a glass mat. Smith also teaches using a foam core as part of an airfoil (col 2, Ins 17-42; col 3, Ins 61-65; col 4, In 15-col 5, In 8; and figs 1-3). Kay teaches using a honeycomb spliced multilayer foam core as part of an airfoil (col 1, In 34-col 2, In 21; col 3, Ins 7-45; figs 1-2); and using the honeycomb spliced multilayer foam core in order to increase shear strength of the airfoil. Smith and Kay are combinable because they are analogous with respect to molding airfoils having a foam core. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the honeycomb spliced multilayer foam core of Kay as the foam core of Smith in order to increase the shear strength of the airfoil of Smith. In regard to claim 2, the use of a preshaped, deep drawn component to form a molded composite is well-known in the molding art.

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Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a pre-shaped, deep drawn component in the process of Smith in order to reduce cycle time. In regard to claim 3, Smith teaches using a second glass fiber mat (col 4, lns 15-35). The placement of the second mat on the spacer before inserting the spacer into the molding tool is a mere obvious matter of choice. Further, the placement of a film on a preform before insertion of the preform into a mold is well-known in the molding for reducing cycle time. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the second mat of Smith on the spacer part of Smith before inserting the spacer part into the molding tool in order to reduce cycle time. In regard to claim 5, such is well-known in the molding art in order to reduce cycle time and provide accurate cuts. See class 264, subclass 163. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to cut the peripheral area of the mat of Smith by a punch located at the claimed location in order to reduce cycle time and provide accurate cuts. In regard to claim 6, the use of a specific apparatus is a mere obvious matter of choice dependent on equipment availability and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the claimed process. Further, the claimed apparatus is well-known in the molding art. See class 264, subclass 163. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the claimed apparatus in the process of Smith in order to reduce cycle time and provide accurate cuts. In regard to claims 7 and 8, the use of a specific apparatus is a mere obvious matter of choice dependent on equipment

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availability and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the claimed process. Further, the claimed spray apparatus of claims 7 and 8 are well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the claimed apparatus in the process of Smith in order to reduce cycle time. In regard to claims 13-14, the use of a specific material is a mere obvious matter of choice dependent on the desired final product and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the claimed process. Further, the claimed material is well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the claimed material in the process of Smith in order to produce diverse products having desired characteristics.

3. Applicant's arguments with respect to claims 1-8 and 13-14 have been considered but are moot in view of the new ground(s) of rejection.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following US patents show the state of the art: 5430937; 2744042; 5580502; 5354195; 5238725; 5082609, 6406588, 3320108, 4377609, 5401456, 4812186, 6008149, 6618944, and 6832810.

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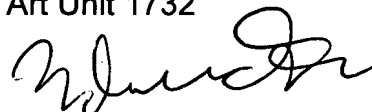
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is 571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571.272.1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EHL

EDMUND H. LEE
Primary Examiner
Art Unit 1732


8/6/04